BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, YELAHANKA DIVISION

Name of Work: Repairs to Existing Samudaya Bhavana at Basavalingappa Nagar in Ward No-03.

DETAILED ESTIMATE

						Estimated Cost:	25.00 Lakhs	
No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking to the appropriate disposal area as per direction of Engineer-in-charge. Of area beyond 3 m² (KPWD SR 2023-24, Volume-II, Item No.19.12.2, Page No.188)								
		Sqm							
	Door, D		1	1.80	2.00		3.60		
	Door, D1		5	1.00	2.00		10.00		
	Window, W		15	1.65	1.35		33.41		
	Window, W1		2	1.05	1.35		2.84		
						Total Quantity	**49.85**	288.20	**14366.05**
	Rate Analysis								
	Basic rate in Rs.	262.00							
	Area Weitage @10%	26.20							
	Total Amount in Rs.	**288.20**							
2	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials to the appropriate disposal area as per direction of Engineerin-charge. (KPWD SR 2023-24, V-II, Item No.19.40 Page No.191)								
		Cum							
	Roof Sheets								
			1	12.60	8.00		100.80		
						Total Quantity	**100.80**	40.00	**4031.60**
	Rate Analysis								
	Basic rate in Rs.	36.00							
	1% fir Lift Charges	0.36							
	Area Weitage @10%	3.64							
	Total Amount in Rs.	**40.00**							
3	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking to the appropriate disposal area as per direction of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.19.18 Page No.189)								
		Kgs							
	Roof Truss								
			4	8.00	0.60		19.20		
						120Kgs per Sqm	2304		
						Total Quantity	**2304.00**	4.44	**10238.98**
	Rate Analysis								
	Basic rate in Rs.	4.00							
	1% fir Lift Charges	0.04							

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.
	Area Weitage @10%	0.40						
	Total Amount in Rs.	**4.44**						
4	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness. (i) By Manual Means a In area of light jungle (KPWD SR 2023-24, V-III, Item No.9 Page No.2.4 a)							
		100Sqm						
	Surounding the Building							
			1	20.00	5.00		100.00	
			1	17.30	2.80		48.44	
			1	15.00	2.15		32.25	
							180.69	
							1.81	
						Total Quantity	**1.81**	1234.20
	Rate Analysis							
	Basic rate in Rs.	1122.00						
	Area Weitage @10%	112.20						
	Total Amount in Rs.	**1234.20**						
5	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work. (KPWD SR 2023-24, V-I, Item No.1.8 Page No.7)							
		Cum						
	At Park Side		1	20.00	5.00	0.45	45.00	
						Total Quantity	**45.00**	521.40
	Rate Analysis							
	Basic rate in Rs.	474.00						
	Area Weitage @10%	47.40						
	Total Amount in Rs.	**521.40**						
6	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)							
		Cum						
	Roof Beam							
			2	12.60	0.23	0.45	2.61	

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No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
			4	7.14	0.23	0.60	3.94		
						Total Quantity	6.55	12164.12	79668.64
	Rate Analysis								
	Basic rate in Rs.	6843.00							
	Form Work 60% for Lintel & Roof Beam	4105.80							
	Sub Total	**10948.80**							
	1% fir Lift Charges	109.49							
	Area Weitage @10%	1105.83							
	Total Amount in Rs.	**12164.12**							
7	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)								
		Cum							
	Roof Slab								
			1	12.60	7.60	0.15	14.36		
						Total Quantity	14.36	11403.86	163805.04
	Rate Analysis								
	Basic rate in Rs.	6843.00							
	Form Work 50% for Roof Slab & Stair Case	3421.50							
	Sub Total	**10264.50**							
	1% fir Lift Charges	102.65							
	Area Weitage @10%	1036.71							
	Total Amount in Rs.	**11403.86**							
8	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification. (KPWD SR 2023-24, V-I, Item No.2.11(a), Page No.18)								
		Tonne							
	Roof Beam @200Kgs/Cum			6.55		0.20	1.31		
	Roof Slab @150Kgs/Cum			14.36		0.150	2.15		
						Total Quantity	3.46	99386.73	344324.92
	Rate Analysis								
	Basic Rate	89457.00							
	1% fir Lift Charges	894.57							

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.
	Area Weightage @10%	9035.16						
	Total Amount	**99386.73**						
9	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KPWD SR 2023-24, V-II, Item No.6.33, Page No.17)							
		Sqm						
	Parapet Wall							
			2	12.60		0.75	18.90	
			2	7.60		0.75	11.40	
						Total Quantity	**30.30**	**1367.64**
	Rate Analysis							
	Basic Rate	1231.00						
	1% fir Lift Charges	12.31						
	Area Weightage @10%	124.33						
	Total Amount	**1367.64**						
10	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.3.1, Page No.41)							
		Sqm						
	External Wall							
	First Floor		2	12.60		2.40	60.48	
			2	7.60		2.40	36.48	
						Total Quantity	**96.96**	**393.29**
	Rate Analysis							
	Basic Rate	354.00						
	1% fir Lift Charges	3.54						
	Area Weightage @10%	35.75						
	Total Amount	**393.29**						
11	Providing 15 mm cement plaster with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.7, Page No.42)							
		Sqm						
	Internal Wall							
	First Floor		2	12.14		0.75	18.21	
			2	7.14		0.75	10.71	
			2	7.14		1.43	20.42	
						Total Quantity	**49.34**	**406.63**
	Rate Analysis							
	Basic Rate	366.00						

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No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	1% fir Lift Charges	3.66							
	Area Weightage @10%	36.97							
	Total Amount	**406.63**							
12	Providing 12 mm cement plaster with cement mortar 1:6 (1 cement:6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.1.2, Page No.41)								
		Sqm							
	For Ceiling								
	First Floor		1	12.14	7.14		86.68		
						Total Quantity	**86.68**	**267.75**	**23208.55**
	Rate Analysis								
	Basic Rate	241.00							
	1% fir Lift Charges	2.41							
	Area Weightage @10%	24.34							
	Total Amount	**267.75**							
13	Repairs to plaster in patches of 2.5 m2 and less in walls, ceilings 10 to 20mm thick in cement mortar 1:3 including cutting the patches in proper shape and replastering the surface of the wall including disposal of rubbish with a lead of 50m including curing cost of materials, labour, complete as per specification. (KPWD SR 2023-24, V-II, Item No.20.88, Page No.206)								
		Sqm							
	For Walls & Ceiling								
			2	1.50	1.00		3.00		
			2	1.00	0.50		1.00		
			2	1.20	1.20		2.88		
			2	2.00	1.00		4.00		
			8	6.00	0.75		36.00		
			2	7.60	0.75		11.40		
			30	6.00	0.75		135.00		
						Total Quantity	**193.28**	**438.90**	**84830.59**
	Rate Analysis								
	Basic Rate	399.00							
	Area Weightage @10%	39.90							
	Total Amount	**438.90**							
14	Removing white wash or colour wash by steel brushing and / or scraping, sand papering and preparing wall surface smooth including repairs to scraches including cost of labour, material complete as per specifications. (KPWD SR 2023-24, V-II, Item No.20.50, Page No.203)								
		Sqm							
	External Wall								
	Ground Floor		2	12.60		3.45	86.94		
			2	7.60		3.45	52.44		
	Internal Wall								
	Ground Floor		2	12.37		3.30	81.64		
			2	7.37		3.30	48.64		
	Ceiling								

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.
			1	12.37	7.37		91.17	
			1	4.50	4.50		20.25	
	Potico							
	Deductions							
	Door, D	2	-4	1.00		2.00	-16.00	
	Windows, W	2	-7	1.65		1.35	-31.19	
	Windows, W1	2	-2	1.65		1.35	-8.91	
						Total Quantity	324.99	14.30
	Rate Analysis							
	Basic Rate	13.00						
	Area Weightage @10%	1.30						
	Total Amount	**14.30**						
15	Removing white wash or colour wash by steel brushing and / or scraping, sand papering and preparing wall surface smooth including repairs to scraches including cost of labour, material complete as per specifications. (KPWD SR 2023-24, V-II, Item No.20.50, Page No.203)							
		Sqm						
	External Wall							
	First Floor		2	12.60		3.00	75.60	
			2	7.60		3.00	45.60	
	Internal Wall							
	First Floor		2	12.37		3.00	74.22	
			2	7.37		3.00	44.22	
	Deductions							
	Door, D		-2	1.80		2.00	-7.20	
	Windows, W1		-12	1.65		1.35	-26.73	
						Total Quantity	205.71	14.44
	Rate Analysis							
	Basic Rate	13.00						
	1% fir Lift Charges	0.13						
	Area Weightage @10%	1.31						
	Total Amount	**14.44**						
16	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.. (KPWD SR 2023-24, V-II, Item No.8.51, Page No.50)							
		Sqm						
	Internal Wall							
	Ground Floor		2	12.37		3.30	81.64	
			2	7.37		3.30	48.64	
	Deductions							
	Door, D		-4	1.00		2.00	-8.00	
	Windows, W		-7	1.65		1.35	-15.59	
	Windows, W1		-2	1.65		1.35	-4.46	
						Total Quantity	102.24	110.00
	Rate Analysis							
	Basic Rate	100.00						
	Area Weightage @10%	10.00						

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	Total Amount	110.00							
17	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.. (KPWD SR 2023-24, V-II, Item No.8.51, Page No.50)								
		Sqm							
	Internal Wall								
	First Floor		2	12.37		3.00	74.22		
			2	7.37		3.00	44.22		
	Deductions								
	Door, D		-1	1.80		2.00	-3.60		
	Windows, W1		-6	1.65		1.35	-13.37		
						Total Quantity	101.48	111.10	11273.87
	Rate Analysis								
	Basic Rate	100.00							
	1% fir Lift Charges	1.00							
	Area Weightage @10%	10.10							
	Total Amount	**111.10**							
18	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.27, Page No.45)								
		Sqm							
	Ground Floor								
	Vide Qty from Item No.	14					324.99		
						Total Quantity	324.99	58.88	19136.14
	Rate Analysis								
	Basic Rate	53.00							
	1% fir Lift Charges	0.53							
	Area Weightage @10%	5.35							
	Total Amount	**58.88**							
19	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.27, Page No.45)								
		Sqm							
	First Floor								
	Vide Qty from Item No.	15					205.71		
						Total Quantity	205.71	58.88	12112.82
	Rate Analysis								
	Basic Rate	53.00							

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.
	1% fir Lift Charges	0.53						
	Area Weightage @10%	5.35						
	Total Amount	**58.88**						
20	Finishing walls with textured exterior paint of required shade :New work (Two coats applied @ 3.28 L/10 m²) over and including priming coat of exterior primer applied @ 2.20kg/10 m² to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.29, Page No.45)							
		Sqm						
	External Wall							
	Ground Floor		2	12.60		3.45	86.94	
			2	7.60		3.45	52.44	
	Deductions							
	Door, D		-2	1.00		2.00	-4.00	
	Windows, W1		-7	1.65		1.35	-15.59	
						Total Quantity	**119.79**	**311.30**
	Rate Analysis							
	Basic Rate	283.00						
	Area Weightage @10%	28.30						
	Total Amount	**311.30**						
21	Finishing walls with textured exterior paint of required shade :New work (Two coats applied @ 3.28 L/10 m²) over and including priming coat of exterior primer applied @ 2.20kg/10 m² to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.29, Page No.45)							
		Sqm						
	First Floor							
	External Wall							
			2	12.60		3.00	75.60	
			2	7.60		3.00	45.60	
	Deductions							
	Door, D		-1	1.80		2.00	-3.60	
	Windows, W1		-6	1.65		1.35	-13.37	
						Total Quantity	**104.24**	**314.41**
	Rate Analysis							
	Basic Rate	283.00						
	1% fir Lift Charges	2.83						
	Area Weightage @10%	28.58						
	Total Amount	**314.41**						

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No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
22	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two coats applied on walls @ 1.25 L/10 m² over and including one coat of Special primer applied @ 0.75 L/10 m² with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (The gloss should be 50% @ 60 degree angle with 10 years life) (KPWD SR 2023-24, V-II, Item No.8.33.1, Page No.46)								
		Sqm							
	Ground Floor								
	For Internal Wall								
	Vide Qty from Item No.	16					102.24		
							Total Quantity	**102.24**	**173.80**	**17768.70**
	Rate Analysis								
	Basic Rate	158.00							
	Area Weightage @10%	15.80							
	Total Amount	**173.80**							
23	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two coats applied on walls @ 1.25 L/10 m² over and including one coat of Special primer applied @ 0.75 L/10 m² with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (The gloss should be 50% @ 60 degree angle with 10 years life) (KPWD SR 2023-24, V-II, Item No.8.33.1, Page No.46)								
		Sqm							
	First Floor								
	For Internal Wall								
	Vide Qty from Item No.	17					101.48		
							Total Quantity	**101.48**	**175.54**	**17812.72**
	Rate Analysis								
	Basic Rate	158.00							
	1% fir Lift Charges	1.58							
	Area Weightage @10%	15.96							
	Total Amount	**175.54**							
24	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer: Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (KPWD SR 2023-24, V-II, Item No.11.13.1, Page No.80)								
		Kgs							
	Window, W		15	1.65		1.35	33.41		

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.
	Window, W1		2	1.05		1.35	2.84	
							36.25	Sqm
					45Kgs per Sqm		1631.14	Kgs
						Total Quantity	**1631.14**	136.40
	Rate Analysis							
	Basic Rate	124.00						
	Area Weightage @10%	12.40						
	Total Amount	**136.40**						
25	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.41, Page No.48)							
		Sqm						
	Window, W	2	15	1.65		1.35	66.83	
	Window, W1	2	2	1.05		1.35	5.67	
	For Hand Railing							
		2	2	4.20		0.90	15.12	
		2	1	1.40		0.90	2.52	
		2	1	2.40		0.90	4.32	
		2	1	2.00		0.90	3.60	
		2	1	3.50		0.90	6.30	
		2	1	2.80		0.90	5.04	
		2	1	2.30		0.90	4.14	
		2	1	4.50		0.90	8.10	
		2	1	2.40		0.90	4.32	
		2	1	1.50		0.90	2.70	
		2	1	1.50		0.90	2.70	
						Total Quantity	**131.36**	**183.70**
	Rate Analysis							
	Basic Rate	167.00						
	Area Weightage @10%	16.70						
	Total Amount	**183.70**						
26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. pipes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (KPWD SR 2023-24, V-II, Item No.84, Page No.11.26.3)							
		Kgs						
	For Hand Railing							
			1	4.20		0.90	3.78	
						30Kgs per sqm	113.40	
						Total Quantity	**113.40**	**201.30**
	Rate Analysis							
	Basic Rate	183.00						
	Area Weightage @10%	18.30						
	Total Amount	**201.30**						

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
27	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications. (KPWD SR 2023-24, V-II, Item No.12.11, Page No.99)								
		Cum							
	Door, D		1	7.60	0.10	0.10	0.08		
	Door, D1		4	6.00	0.10	0.10	0.24		
							Total Quantity	**0.32**	**151881.40**	**47994.52**
	Rate Analysis								
	Basic Rate	138074.00							
	Area Weightage @10%	13807.40							
	Total Amount	**151881.40**							
28	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures) (KPWD SR 2023-24, V-II, Item No.12.15, Page No.100)								
		Sqm							
	Door, D		1	1.80		2.00	3.60		
	Door, D1		4	1.00		2.00	8.00		
							Total Quantity	**11.60**	**8188.40**	**94985.44**
	Rate Analysis								
	Basic Rate	7444.00							
	Area Weightage @10%	744.40							
	Total Amount	**8188.40**							
29	Painting wood work with Deluxe Multi Surface Paint of required shade. Two coat applied @ 0.90L/10 m² over an under coat of primer applied @0.75 L/10 m² of approved brand and manufacture to give an even shade including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.33.2, Page No.46)								
		Sqm							
	Door, D		2	1.80		2.00	7.20		
	Door, D1		8	1.00		2.00	16.00		
							Total Quantity	**23.20**	**151.80**	**3521.76**
	Rate Analysis								
	Basic Rate	138.00							
	Area Weightage @10%	13.80							
	Total Amount	**151.80**							

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.
30	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90L/10 m² over an under coat of primer applied @ 0.80 L/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.33.3, Page No.47)							
		Sqm						
	Door, D		2	1.80		2.00	7.20	
	Door, D1		8	1.00		2.00	16.00	
						Total Quantity	**23.20**	**152.90**
	Rate Analysis							
	Basic Rate	139.00						
	Area Weightage @10%	13.90						
	Total Amount	**152.90**						
31	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU wate proofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6 kg/m2 to achieve final DFT (Dry Film Thickness) of 1mm including prime coat of epoxy primer @150 g/m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification.. (KPWD SR 2023-24, V-II, Item No.15.1, Page No.148)							
		Sqm						
	Terrace Slab							
			1	12.60	7.60		95.76	
	For Chejjas							
			17	2.05	0.60		20.91	
	For Portico		1	4.50	4.50		20.25	
						Total Quantity	**136.92**	**907.69**
	Rate Analysis							
	Basic Rate	817.00						
	1% fir Lift Charges	8.17						
	Area Weightage @10%	82.52						
	Total Amount	**907.69**						
32	Earth work in surface excavation by manual means for lowering & levelling the ground by chiselling and wedging in Hard rock for all works other than foundation & depth not exceeding 100 mm as per drawing and technical specifications, including setting out, barricading, caution lights, dressing of excavated surfaces, disposing off the excavated spalls/stuff & stacking the selected spall/ stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. (KPWD SR 2023-24, V-I, Item No.1.3, Page No.5)							
		Cum						
	Surounding the Building							
			1	20.00	5.00	0.20	20.00	

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
			1	17.30	2.80	0.20	9.69		
			1	15.00	2.15	0.20	6.45		
						Total Quantity	36.14	194.70	7036.07
	Rate Analysis								
	Basic Rate	177.00							
	Area Weightage @10%	17.70							
	Total Amount	**194.70**							
33	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.1, Page No.15)								
		Cum							
	Surounding the Building								
	Flooring		1	20.00	5.00	0.15	15.00		
			1	17.30	2.80	0.15	7.27		
			1	15.00	2.15	0.15	4.84		
						Total Quantity	27.10	6838.70	185352.71
	Rate Analysis								
	Basic Rate	6217.00							
	Area Weightage @10%	621.70							
	Total Amount	**6838.70**							
34	Providing and laying 60mm thick factory made precast M -30 grade Cement Concrete Paver Block as per IRC SP 63:2018 & IS 15658 for Cycle Tracks & Pedestrian Footpaths of approved shape and colour, laid in required pattern and including over 30mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-incharge. (WMM/WBM Base to be paid separately if necessary as per relevant technical specification) (KPWD SR 2023-24, V-III, Item No.6.8.1, Page No.51)								
		Sqm							
	Surounding the Building								
	Flooring		1	20.00	5.00		100.00		
			1	17.30	2.80		48.44		
			1	15.00	2.15		32.25		
						Total Quantity	180.69	1174.80	212274.61
	Rate Analysis								
	Basic Rate	1068.00							
	Area Weightage @10%	106.80							
	Total Amount	**1174.80**							
	ELECTRIC WORK								

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.
35	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. (ELE SR 2023-24 Page-2, Item-1.1.2)							
		m						
	b) 25mm dia 2mm thick							
	Concealed Conduit System		25				25.00	
						Total Qty	**25.00**	**81.00**
36	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (ELE SR 2023-24 Page-2, Item-1.2.2)							
		m						
	b) 25mm dia 2mm thick							
			25				25.00	
						Total Qty	**25.00**	**78.00**
37	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. (ELE SR 2023-24 Page-2, Item-1.3.2)							
		m						
	b) 25mm dia 2mm thick							
			25				25.00	
						Total Qty	**25.00**	**79.00**
38	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.(ELE SR 2023-24 Page-1, Item-1.4)							
		each						
	c) 135x75x65mm		10				10.00	
						Total Qty	**10.00**	**139.00**
39	**d)180x90x65mm**		10				10.00	
						Total Qty	**10.00**	**161.00**
40	**e)200x90x65mm**		10				10.00	
						Total Qty	**10.00**	**179.00**
41	Supplying and fixing PVC/metal conduit accessories.(3/5) b)25mm junction box (ELE SR 2023-24 Page-3, Item-1.5)							
		each						
			10				10.00	
						Total Qty	**10.00**	**56.00**
42	**c) 32mm deep junction box**							
			10				10.00	

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No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
						Total Qty	10.00	61.00	610.00
43	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete. a)12"x"12"x3" (330x300x76mm) (ELE SR 2023-24 Page-3, Item-1.6)								
		m							
			10				10.00		
						Total Qty	10.00	120.00	1200.00
44	b)12"x9"x3" (300x228x76)		10				10.00		
						Total Qty	10.00	115.00	1150.00
45	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. Short point upto 3Mtr from tapping point to out let via switch (ELE SR 2023-24 Page-5, Item-2.1.1)								
		Point							
			10				10.00		
						Total Quantity	10.00	285.00	2850.00
46	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point) (ELE SR 2023-24 Page-5, Item-2.1.2)								
		Point							
			10				10.00		
						Total Quantity	10.00	394.00	3940.00
47	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire copper PVC insulated multi strand 2x1.5Sqmm copper wire (confirming to IS-694:and latest amendments) without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. a) Short point up to 3Mtr from tapping point to out let via switch box (ELE SR 2023-24 Page-5, Item-2.2.1)								
		Point							
			10				10.00		
						Total Quantity	10.00	269.00	2690.00

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.
48	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire copper PVC insulated multi strand 2x1.5Sqmm copper wire (confirming to IS-694:and latest amendments) without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box (ELE SR 2023-24 Page-5, Item-2.2.2)							
		Point						
			10				10.00	
						Total Quantity	10.00	379.00
49	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. e) 6Moudule (ELE SR 2023-24 Page-8, Item-3.5.4)							
		Each						
			35				35.00	
						Total Quantity	35.00	234.00
50	Supplying and fixing of modular switch & connected accessories on existing modular switch plate. (ELE SR 2023-24 Page-9, Item-3.6)							
		Each						
	a) 6Amps one way.		25				25.00	
						Total Quantity	25.00	102.00
		Each						
51	Stepped Fan Regulator Two Module		12				12.00	
						Total Quantity	12.00	357.00
		Each						
52	16A One Way Switch		4				4.00	
						Total Quantity	4.00	180.00
		Each						
53	32A DP Switch		2				2.00	
						Total Quantity	2.00	326.00
		Each						
54	6/16A Universal Socket		10				10.00	
						Total Quantity	10.00	236.00
		Each						

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
55	Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply &completely wired on existing box (ELE SR 2023-24 Page-9, Item-3.7)								
		Each							
			5				5.00		
						Total Quantity	5.00	646.00	3230.00
56	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. a. 1 sqmm. (ELE SR 2023-24 Page-9, Item-3.7)								
		m							
	1Sqmm		450				450.00		
						Total Quantity	450.00	19.00	8550.00
		m							
	1.5Sqmm		300				300.00		
						Total Quantity	300.00	26.00	7800.00
		m							
	6Sqmm		75				75.00		
						Total Quantity	75.00	92.00	6900.00
		m							
	10Sqmm		30				30.00		
						Total Quantity	30.00	167.00	5010.00
		Each							
	16Sqmm		50				50.00		
						Total Quantity	50.00	318.00	15900.00
57	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm .... Etc as required. a) 20mm (ELE SR 2023-24 Page-3, Item-1.8.1)								
		m							
			50				50.00		
						Total Quantity	50.00	28.00	1400.00
58	Supplying PVC/GI flexible conduit pip 20mm dia fixing on surface over inverted wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pipe terminated completely. 20mm (ELE SR 2023-24 Page-3, Item-1.9.1)								
		m							
			50				50.00		
						Total Quantity	50.00	19.00	950.00

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.
59	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. b) 110mm (ELE SR 2023-24 Page-9, Item-3.10.3)							
		Nos						
			15				15.00	
						Total Quantity	15.00	21.00
60	Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slap. (ELE SR 2023-24 Page-9, Item-3.11)							
		Nos						
			20				20.00	
						Total Quantity	20.00	12.00
61	Supplying of 1 x 4' feet -PVC Batten with integrated LED tube - 20/22 W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V@ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition (ELE SR 2023-24 Page-43, Item-11.3.2)							
		Nos						
			15				15.00	
						Total Quantity	15.00	690.00
62	Supply of round/square recess/surface mounted rolling type LED Down light with ..... W GU 10 LED Lamp Rib Fabricated from diecast aluminium with white powder coated prewired to mains connector & has swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @50/60Hz & Power factor >0.9 along with CE approved. 2years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 10-12W (ELE SR 2023-24 Page-44, Item-11.5.2)							
		Nos						
			10				10.00	
						Total Quantity	10.00	885.00
63	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/79 and also comply with IS: 1709/1984 with latest amendment, Rated voltage 220 V/50 Hz, Rated power input 48 W +/- 10 %, Rated current As per IS:374/79, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value 4.2 CMM / W, Three Blades of blade leaf 1.05 mm thick Aluminium Alloy sheet, Class B motor insulation, Bearing Two ball bearings, Top 6202, Bottom 6201, as per IS specification, Motor winding. Temp rise Shall not exceed 75 deg C over and ambient of 40 0C by resistance method at 245 V, Insulation resistance Shall not be less than Two Mega Ohms (2M Ohms), Leakage current Should not exceed 210 Micro Amp, Power input, W& current, Air Delivery & Fan Speed as per IS:374/1979 with latest amendment, 2 year manufacturer Warranty. 48" Sweep 5 Star (1200 mm) (ELE SR 2023-24 Page-30, Item-6.4.1)							

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Sl No	Description of Work	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
		Each							
			12				12.00		
						Total Quantity	12.00	2677.00	32124.00
								Construction Total Amount	2113177.55
								Add 18% for GST Charges	380371.96
								Sub Total	2493549.50
								Miscellaneous and unforeseen charges etc.L.S	6450.50
								Grand Total Amount	2500000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of PWD & ELE 2023-24

Assistant Engineer
Ward No.03
BBMP, Bangalore

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP, Bangalore

Executive Engineer
Yelahanka Division
BBMP, Bangalore

Administrative Sanction for Rs. 25.00 Lakhs
Rupees Twenty Five lakhs Only
is accorded under head P-1878
SCP/TSP
Registered as No. 40 Subject
to conditions contained in enclosed memo
No. BBMP/EE/YNK-D/AS/40/23-24 Dt. 12/2/24

Executive Engineer

Technical Sanction
Accorded For Rs. 25.00 Lakhs
Head of A/C P-1878
CER NO : 101 Dt: 12/2/24

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